WHAT IS CLAIMED IS:

2	1.	A car	pet composition, recyclable without a separation step, having
3		from 5	to 100 percent polymeric material comprising:
4		a)	atufted primary backing having a primary backing and tufts of
5			carpet fibers penetrating a bottom surface of the primary
6			backing and protruding from a top surface of the primary
7			backing;
8		b)	a secondary backing material; and
9		c)	an extruded adhesive material or a coextrusion of two or more
10			extruded adhesive materials binding an upper surface of the
11			secondary backing material to the bottom surface of the primary
12			backing;
13		where	ein the carpet libers, primary backing material and secondary
14		backi	ng material are selected from the group consisting of
15		polyp	ropylene, polyester, acrylics, polyethylene, polyamide, nylon,
16		wool,	cotton, rayon and combinations thereof;
17		and v	vherein the adhesive material comprises an amorphous
18		polye	thylene copolymer selected from the group consisting of ethylene
19		meth	yl acrylate, ethylene normal butyl acrylate, and blends of two or
20		more	polyethylene copolymers.
21	2.		carpet composition of claim 1 wherein the extruded adhesive
22			rial comprises a middle laver of polyethylene sandwiched between
23	•	two c	outer layers selected from the group consisting of ethylene methyl
24		acryl	ate and ethylene normal butyl acrylate.

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- The carpet composition of claim 2 wherein the middle polyethylene layer of the extruded adhesive material is from 10 to 90 weight percent of the extruded adhesive material and each of the two outer layers is from 5 to 45 weight percent of the extruded adhesive material.
- The carpet composition of claim 1 wherein the adhesive material further comprises maleic anhydride.
 - The carpet composition of claim 1 wherein the adhesive material is a coextruded blend of ethylene methyl acrylate copolymers and polymers selected from the group consisting of low density polyethylenes, linear low density polyethylenes, high density polyethylenes, ultra low density polyethylene having a density less than 0.915 density, ethylene-propylene copolymers, elastomers, rubber, EPDM rubber, styrenic copolymers of butadiene, styrenic copolymers of acrylonitrile styrenic copolymers of ethylene, metallocene based polyethylenes, polypropylene, polyester, ethylene acrylic acid copolymers, ethylene methyl acrylic acid copolymers, butyl acrylate copolymers, ethylene vinyl acetate copolymers, ionomers, polyamides, and maleic anhydrides.
- The carpet composition of claim 1 wherein the adhesive material has a thickness of from 0.001 inches to 0.050 inches.
- 7. The carpet composition of claim 1 wherein the adhesive material further comprises additives selected from the group consisting of flame retardants, odor reduction additives, scent enhancing additives and ultra-violet light protection additives.

The carpet composition of claim 1 wherein the adhesive material

	2	further comprises fillers selected from the group consisting of talc,
	3	calcium carbonate and other inorganic fillers.
	. 4	9. A method of making a carpet, the carpet comprising a tufted primary
	5	backing with a primary backing and tufts of carpet fibers penetrating a
	6	bottom surface of the primary backing and protruding from a top
		surface of the primary backing; a secondary backing material; and an
2000	8	adhesive material binding an upper surface of the secondary backing
NOB	/ 9	material to the bottom surface of the tufted primary backing; the carpet
noemuloo	· 10	fibers, primary backing material and secondary backing material being
ļā IT	11	selected from the group consisting of polypropylene, polyester,
TU .	12	acrylics, polyethylene, polyamide, nylon, wool, cotton, rayon and
7 <u>—</u>	13	combinations thereof and the adhesive material comprising an
()	. 14	amorphous polyethylene copolymer selected from the group consisting
	15	of ethylene methyl acrylate and ethylene normal butyl acrylate; the
	16	method comprising the steps of
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i.i.	17	a) extruding a heated speet of the adhesive material; and
	18	b) continuously fusing together in a two roll nip the upper surface of
	19	the secondary backing and the bottom surface of the tufted primary
	20	backing with the heated sheet.
	(21	10. A method according to claim 9 wherein the two roll nip comprises a
,	hul 22	hard roll and a soft roll.
	23	11. A method according to claim 10 wherein the soft roll has a diameter of
7	24	from 4 to 20 inches and a hardness of from 5 to 100 shore D.

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- 1 12. A method according to claim 10 wherein the soft roll is comprised of rubber.
- A method according to claim 10 wherein the hard roll is a cooled metal chill roll capable of maintaining a temperature below 120°F.
- 5 14. A method according to claim 11 wherein the two roll nip has pressure between 20 and 200 pounds per linear inch.
 - A method of using at least one of ethylene methyl-acrylate copolymer 15. and ethylene normal butyl acrylate copolymer to manufacture a çarpet, the carpet comprising a tufted primary backing with a primary backing and tufts of carpet fibers penetrating a bottom surface of the primary backing and protruding from a top surface of the primary backing; a secondary backing material; and an adhesive material binding an upper surface of the secondary backing material to the bottom surface of the tufted primary backing; the carpet filders, primary backing material and secondary backing material being selected from the group consisting of polypropylene, polyester, acrylics, polyethylene, polyamide, nylon, wool, cotton, rayon and combinations thereof and the adhesive material comprişing an amorphous polyethylene copolymer selected from the group consisting of ethylene methyl acrylate and ethylene normal butyl acrylate; the method comprising the steps of:
- a) extruding a heated sheet of the adhesive material; and
 - b) continuously fusing together in a two roll nip the upper surface of the secondary backing and the bottom surface of the tufted primary backing with the heated sheet.

A method according to claim 15 wherein the two roll hip comprises a 1 16. hard roll and a soft roll. 2 A method according to claim 16 wherein the soft/roll has a diameter of 3 17. from 4 to 20 inches and a hardness of from 5 to/100 shore D. 4 A method according to claim 16 wherein the soft roll is comprised of 5 18. rubber. 6 A method according to claim 16 wherein the hard roll is a cooled metal 19. 7 chill roll capable of maintaining a temperature below 120°F. 8 A method according to claim 17 wherein the two roll nip has pressure 9 20. between 20 and 200 pounds per linear inch. 10 A method of recycling a carpet, the carpet comprising a tufted primary 21. 11 backing with a primary backing and tufts of carpet fibers penetrating a 12 bottom surface of the primary backing and protruding from a top 13 surface of the primary backing; a secondary backing material; and an 14 extruded adhesive material or a coextruded blend of two or more 15 extruded adhesive materials binding an upper surface of the secondary 16 backing material to the bottom surface of the primary backing; the 17 carpet fibers, primary backing material and secondary backing material 18 being selected from the group consisting of polypropylene, polyester, 19 acrylics, polyethylene, polyanide, nylon, wool, cotton, rayon and 20 combinations thereof and the adhesive material comprising an 21 amorphous polyethylene copolymer selected from the group consisting 22 of ethylene methyl acrylate and ethylene normal butyl acrylate; the 23 method comprising the step of melting the carpet to obtain an 24 extrudate feedstock. 25